



X16760-pkd.ST25.txt
SEQUENCE LISTING

<110> Allan, Barrett W.
Davies, Julian
Marquis, David M.
Ondek, Brian
Watkins, Jeffry D.

<120> CD20 BINDING MOLECULES

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<140> 10/849,615
<141> 2004-05-20

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<170> PatentIn version 3.3

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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Ser Ser Val Pro Tyr Ile
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Ala Thr Ser Ala Leu Ala Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu
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Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Leu Ser Asn Pro Pro Thr
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Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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caggctccca ggctcctcat ctatgccaca tccgctctgg cttctggcat cccagacagg 180

ttcagtggca gtgggtctgg gacagacttc actctcacca tcagcagact ggagcctgaa 240

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 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Arg Thr Phe Thr Ser Tyr
 20 25 30
 Asn Met His Trp val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ala Ile Tyr Pro Leu Thr Gly Asp Thr Ser Tyr Asn Gln Lys Ser
 50 55 60
 Lys Leu Gln val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
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 100 105 110
 Lys Gly Thr Thr val Thr val Ser Ser
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val His Tyr Ile
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His Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile Tyr
35 40 45

Ala Thr Ser Gly Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
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Asp Val Ala Thr Tyr Tyr Cys Gln Thr Trp Thr Phe Asn Pro Pro Thr
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Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
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aaagttccta agctcttgat ctatgccaca tccggcctgg cttctggggg cccatctcgg 180
ttcagtggca gtggatctgg gacagatttc actctcacca tcagcagcct gcagcctgaa 240
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Asn Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Ala Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn Gln Lys Phe
50 55 60
Lys Trp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Ser Thr Tyr Tyr Gly Gly Asp Trp Gln Phe Asp Glu Trp Gly
100 105 110

Lys Gly Thr Thr Val Thr Val Ser Ser
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cctggacaag ggcttgagtg gatgggagcc atctatcctg gaaatgggtga tacaagctac 180
aatcagaagt ttaaattggag agtcaccatg accagggaca cgtccacgag cacagtctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagatcgact 300
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<213> artificial

<220>
<223> synthetic construct

<220>
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<222> (1)..(213)
<223> AME 33 complete light chain

<400> 67

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1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Ser Ser Val Pro Tyr Ile
20 25 30

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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Ala Thr Ser Ala Leu Ala Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Leu Ser Asn Pro Pro Thr
85 90 95

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala Pro
100 105 110

Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
115 120 125

Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
130 135 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
145 150 155 160

Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
165 170 175

Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala
180 185 190

Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe
195 200 205

Asn Arg Gly Glu Cys
210

<210> 68
<211> 642
<212> DNA
<213> artificial

<220>
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<220>
<221> misc_feature
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<223> AME 33 complete light chain
<400> 68

x16760-pkd.ST25.txt

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caggctccca ggctcctcat ctatgccaca tccgctctgg cttctggcat cccagacagg 180
ttcagtggca gtgggtctgg gacagacttc actctcacca tcagcagact ggagcctgaa 240
gattttgcag tgtattactg tcagcagtgg ctgagtaacc caccactttt tggccagggg 300
accaagctgg agatcaaacg aactgtggct gcaccatctg tcttcatctt cccgccatct 360
gatgagcagt tgaaatctgg aactgcctct gttgtgtgcc tgctgaataa cttctatccc 420
agagaggcca aagtacagtg gaagggtgat aacgccctcc aatcgggtaa ctcccaggag 480
agtgtcacag agcaggacag caaggacagc acctacagcc tcagcagcac cctgacgctg 540
agcaaagcag actacgagaa acacaaagtc tacgcctgcg aagtcaccca tcagggcctg 600
agctcgcccc tcacaaagag cttcaacagg ggagagtgtt ag 642

<210> 69
<211> 451
<212> PRT
<213> artificial

<220>
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<220>
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<222> (1)..(451)
<223> AME 33 complete heavy chain

<400> 69

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

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20 25 30

Asn Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Ala Ile Tyr Pro Leu Thr Gly Asp Thr Ser Tyr Asn Gln Lys Ser
50 55 60

Lys Leu Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Ser Thr Tyr Val Gly Gly Asp Trp Gln Phe Asp Val Trp Gly

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100		105		110
Lys	Gly	Thr	Thr	Val
	115			
		Val	Thr	Val
		120	Ser	Ser
			Ala	Ser
			Thr	Thr
			125	Lys
				Gly
				Pro
				Ser
Val	Phe	Pro	Leu	Ala
	130			
		Pro	Ser	Ser
		135		
			Lys	Ser
			Thr	Ser
			140	Gly
				Gly
				Thr
				Ala
Ala	Leu	Gly	Cys	Leu
145				Val
			150	Lys
				Asp
				Tyr
				Phe
				Pro
				155
				Glu
				Pro
				Val
				Thr
				Val
160				
Ser	Trp	Asn	Ser	Gly
				165
				Ala
				Leu
				Thr
				Ser
				Gly
				170
				Val
				His
				Thr
				Phe
				Pro
				175
				Ala
Val	Leu	Gln	Ser	Ser
				180
				Gly
				Leu
				Tyr
				Ser
				185
				Leu
				Ser
				Ser
				Val
				190
				Val
				Thr
				Val
Pro	Ser	Ser	Ser	Leu
				195
				Gly
				Thr
				Gln
				200
				Thr
				Tyr
				Ile
				Cys
				Asn
				205
				Val
				Asn
				His
Lys	Pro	Ser	Asn	Thr
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				Lys
				Val
				215
				Asp
				Lys
				Lys
				Val
				220
				Glu
				Pro
				Lys
				Ser
				Cys
Asp	Lys	Thr	His	Thr
225				
				Cys
				230
				Pro
				Pro
				Cys
				Pro
				Ala
				235
				Pro
				Glu
				Leu
				Leu
				Gly
				240
Gly	Pro	Ser	Val	Phe
				245
				Leu
				Phe
				Pro
				Pro
				Lys
				250
				Pro
				Lys
				Asp
				Thr
				Leu
				Met
				255
Ile	Ser	Arg	Thr	Pro
				260
				Glu
				Val
				Thr
				Cys
				265
				Val
				Val
				Val
				Asp
				Val
				270
				Ser
				His
Glu	Asp	Pro	Glu	Val
				275
				Lys
				Phe
				Asn
				280
				Trp
				Tyr
				Val
				Asp
				Gly
				285
				Val
				Glu
				Val
His	Asn	Ala	Lys	Thr
	290			
				Lys
				Pro
				295
				Arg
				Glu
				Glu
				Gln
				Tyr
				300
				Asn
				Ser
				Thr
				Tyr
Arg	Val	Val	Ser	Val
305				
				Leu
				310
				Thr
				Val
				Leu
				His
				Gln
				315
				Asp
				Trp
				Leu
				Asn
				Gly
				320
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				Lys
				Val
				Ser
				Asn
				Lys
				330
				Ala
				Leu
				Pro
				Ala
				335
				Pro
				Ile
Glu	Lys	Thr	Ile	Ser
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				Lys
				Ala
				Lys
				Gly
				345
				Gln
				Pro
				Arg
				Glu
				Pro
				350
				Gln
				Val
				Ser
Tyr	Thr	Leu	Pro	Pro
				Ser
				Arg
				Asp
				Glu
				Leu
				Thr
				Lys
				Asn
				Gln
				Val
				Ser

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360

355

365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
370 375 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385 390 395 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
420 425 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
435 440 445

Pro Gly Lys
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<223> AME 33 complete heavy chain

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cccgggaaag gcctggagtg gatgggggct atttatccct tgacgggtga tacttcctac 180
aatcagaagt cgaaactcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gagatcgact 300
tacgtgggcg gtgactggca gttcgaatgc tggggcaagg ggaccacggt caccgtctcc 360
tcagcctcca ccaagggccc atcgggtcttc cccctggcac cctcctccaa gagcacctct 420
gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 480
tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc 540
tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcaccag 600
acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gaaggttgag 660

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cccaaattctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720
ggaccgtcag tcttctcttt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc 780
cctgaggtca catgctggtt ggtggacgtg agccacgaag accctgaggt caagttcaac 840
tggtacgtgg acggcgtgga ggtgcataat gcccaagacaa agccgcggga ggagcagtac 900
aacagcacgt accgtgtggt cagcgtcttc accgtcctgc accaggactg gctgaatggc 960
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gagctgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140
atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc 1200
gtgctggact ccgacggctc cttcttcttc tatagcaagc tcaccgtgga caagagcagg 1260
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<213> Homo sapiens

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<223> FRL1 VKIII (A27)(DPK22)

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<400> 71

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<210> 72
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<220>
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<223> FRL2 VKIII (A27)(DPK22)

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<400> 72

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Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1           5           10           15

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<210> 73

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<211> 32
<212> PRT
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<220>
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<222> (1)..(32)
<223> FRL3 VklIII (A27)(DPK22)

<400> 73

Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> 74
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> FRL4 VklIII (A27)(DPK22)

<400> 74

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 75
<211> 69
<212> DNA
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<220>
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<223> FRL1 VklIII (A27)(DPK22)

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ctctcctgc 69

<210> 76
<211> 45
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(45)
<223> FRL2 VklIII (A27)(DPK22)

x16760-pkd.ST25.txt

<400> 76
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<210> 77
<211> 96
<212> DNA
<213> Homo sapiens

<220>
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<223> FRL3 vkIII (A27)(DPK22)

<400> 77
ggcatccagc acaggttcag tggcagtggg tctgggacag acttcactct caccatcagc 60
agactggagc ctgaagattt tgcagtgtat tactgt 96

<210> 78
<211> 30
<212> DNA
<213> Homo sapiens

<220>
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<223> FRL4 vkIII (A27)(DPK22)

<400> 78
tttggccagg ggaccaagct ggagatcaaa 30

<210> 79
<211> 25
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(25)
<223> FRH1 VH5-51 (DPK-73)

<400> 79
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser
20 25

<210> 80
<211> 14
<212> PRT
<213> Homo sapiens

x16760-pkd.ST25.txt

<220>
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 <223> FRH2 VH5-51 (DP-73)

<400> 80

Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly
 1 5 10

<210> 81
 <211> 32
 <212> PRT
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<220>
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 <223> FRH3 VH5-51 (DP-73)

<400> 81

Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr Leu Gln
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Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Arg
 20 25 30

<210> 82
 <211> 11
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> FRH4 VH5-51 (DP-73)

<400> 82

Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

<210> 83
 <211> 75
 <212> DNA
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<220>
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<400> 83
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 tcctgtaagg gttct 75

x16760-pkd.ST25.txt

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<220>
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 <223> FRH2 VH5-51 (DP-73)

<400> 84
 tgggtgcgcc agatgcccgg gaaaggcctg gagtggatgg ggcaggtcac catctcagcc 60
 gacaagtcca tcagcaccgc ctacctgcag tggagc 96

<210> 85
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 <212> DNA
 <213> Homo sapiens

<220>
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<210> 86
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 <212> DNA
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<220>
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 <223> FRH4 VH5-51 (DP-73)

<400> 86
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<210> 87
 <211> 23
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<220>
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 <223> FRL1 VKI (DPK4)(A20)

<400> 87

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

x16760-pkd.ST25.txt

Asp Arg Val Thr Ile Thr Cys
20

<210> 88
<211> 15
<212> PRT
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<220>
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<400> 88

Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 89
<211> 32
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(32)
<223> FRL3 VKI (DPK4)(A20)

<400> 89

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Val Ala Thr Tyr Tyr Cys
20 25 30

<210> 90
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> FRL4 VKI (DPK4)(A20)

<400> 90

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 91
<211> 69
<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(69)

<223> FRL1 vki (DPK4)(A20)

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atcacttgc 69

<210> 92

<211> 45

<212> DNA

<213> Homo sapiens

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<222> (1)..(45)

<223> FRL2 vki (DPK4)(A20)

<400> 92

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<210> 93

<211> 96

<212> DNA

<213> Homo sapiens

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<222> (1)..(96)

<223> FRL3 vki (DPK4)(A20)

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agcctgcagc ctgaagatgt tgccacttat tactgc 96

<210> 94

<211> 30

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(30)

<223> FRL4 vki (DPK4)(A20)

<400> 94

ttcggcgag ggaccaaggt ggagatcaaa 30

<210> 95

<211> 25

<212> PRT

<213> Homo sapiens

<220>
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 <222> (1)..(25)
 <223> FRH1 VKI (DP7/21-2)

<400> 95

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser
 20 25

<210> 96
 <211> 14
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (1)..(14)
 <223> FRH2 VKI (DP7/21-2)

<400> 96

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
 1 5 10

<210> 97
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (1)..(32)
 <223> FRH3 VKI (DP7/21-2)

<400> 97

Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr Met Glu
 1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 98
 <211> 11
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE

x16760-pkd.ST25.txt

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<222> (1)..(11)
<223> FRH4 vki (DP7/21-2)

<400> 98
Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
1      5      10

<210> 99
<211> 75
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(75)
<223> FRH1 vki (DP7/21-2)

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cagggtgcagc tgggtgcagtc tgggtgctgaa gtgaagaagc ctggggcctc agtgaaggtg      60
tcctgcaagg catct                                                                75

<210> 100
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> FRH2 vki (DP7/21-2)

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<211> 96
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> FRH3 vki (DP7/21-2)

<400> 101
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agatctgagg acacggccgt gtattactgt gcgaga                                                                96

<210> 102
<211> 33
<212> DNA
<213> Homo sapiens

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<220>

<221> misc_feature

<222> (1)..(33)

<223> FRH4 Vki (DP7/21-2)

<400> 102

tggggcaaag ggaccacggt caccgtctcc tca

33